

NUMBERS & ODDITIES
the Spooks Newsletter
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First of all I wish all WUN members, contributors and readers of N&O a very good and healthy 2006.

Persisting PC problems caused a lot of problems in the last few weeks of December. It started with a malfunctioning hard disk followed by a defective mother board. A lot of data has been recovered but I don't know if the files are still readable. These problems were the reason why N&O did not appear in WUN's December newsletter. The logs section is missing as are a couple of other items. Part of them are gone but I am compiling the info again and will include them in the January edition.

Contributors to the December N&O: Fritz, Vladimir, Jim, Trond, Klaus, IARUMS, Mike (much time for the hobby while being injured), Sferix, Jochen, John, Igor, Leif, Hugh, Glenn, Hugh, Peter, John, Maciej, Mathias and everyone who prefers to be unnamed. Thanks for your efforts, gentlemen.

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On December 25, Mathias Kropf has issued the 2005 Clandestine Activity Survey. Although clandestine stations are not covered in N&O, I regularly mention the jammers that are chasing them.

2005 Clandestine Activity Survey

In 2005 the activity of political clandestine stations broadcasting on shortwave has decreased by almost 3 % to 1195 WBHs (Weekly Broadcasting Hours). This is the lowest level of activity since 1999.

The activity of clandestine stations with target areas on the Asian continent has decreased by almost 9 % to 841 WBHs. Activity on the African continent, however, has increased by 51 % to now 192 WBHs. Very little has changed on the American continent where activity is now at 162 WBHs.

The three most active target areas worldwide are Iraq with 225 WBHs (-107

when compared with one year ago), Afghanistan with 190 WBHs (+25) and North Korea with 168 WBHs (unchanged).

The number of different target areas active worldwide has increased by one to 25. It should be noted that all four new (or reactivated) target areas are on the African continent (Senegal, Somalia, Gambia and Cameroon). On the other hand, Lebanon, Colombia and Papua New Guinea are no longer thought to be active.

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* VOICE STATIONS *

::: E03

See also the DTMF item under Various Modes.

Lincolnshire Poacher idents compiled by Al.

First half of December.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	29223	29223	29223	29223	29223	29223	29223	1200
1300	90655	90655	90655	90655	90655	90655	90655	1300
1400	08572	16560	49260	67885	29223	08873	31979	1400
1500	31979	08572	16560	49260	67885	29223	41361	1500
1600	41361	31979	08572	16560	49260	67885	08873	1600
1700	08873	41361	31979	08572	16560	49260	29223	1700
1800	29223	08873	41361	31979	08572	16560	67885	1800
1900	67885	90655	08873	90655	31979	08572	90655	1900
2000	90655	29223	90655	41361	90655	31979	49260	2000
2100	49260	67885	29223	08873	41361	90655	16560	2100
2200	16560	49260	67885	29223	08873	41361	08572	2200

Second half of December

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	69483	69483	69483	69483	69483	69483	69483	1200
1300	32331	32331	32331	32331	32331	32331	32331	1300
1400	42012	03235	08576	77980	69483	54434	15871	1400
1500	15871	42012	03235	08576	77980	69483	84438	1500
1600	84438	15871	42012	03235	08576	77980	54434	1600
1700	54434	84438	15871	42012	03235	08576	69483	1700
1800	69483	54434	84438	15871	42012	03235	77980	1800
1900	77980	32331	54434	32331	15871	42012	32331	1900
2000	32331	69483	32331	84438	32331	15871	08576	2000

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- Cherry Ripe idents. Compiled by Tomonori

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200		76523	80205	71163	76523		2200
2300		70807	71163	76523	71163		2300
0000			71163	?????	70807	70807	0000
0100			?????	?????	?????	?????	0100
1000			70807	?????	80205	?????	1000
1100		70807	70807	70807	70807	?????	1100
1200			80205	?????	76523	?????	1200
1300		70807	70807	70807	70807	?????	1300

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	?????	76523	80205	71163	76523		2200
2300	76523	70807	71163	76523	71163		2300
0000		70807	71163	76523	70807	76523	0000
0100		?????	?????	?????	?????	?????	0100
1000		?????	?????	70807	?????	70807	1000
1100		70807	70807	70807	70807	70807	1100
1200		70807	8020?	70807	76523	70807	1200
1300		70807	70807	70807	70807	70807	1300

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	80205	?????	61875	48584	23876		2200
2300	76523	23876	48584	23876	48584		2300
0000		70807	48584	23876	70807	?????	0000
0100		?????	?????	?????	?????	?????	0100
1000		76523	?????	?????	?????	?????	1000
1100		?????	70807	70807	70807	70807	1100
1200		?????	?????	?????	?????	?????	1200
1300		?????	70807	70807	70807	70807	1300

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	61875	23876	?????	48584	?????		2200
2300	23876	70807	48584	23876	48584		2300
0000		70807	48584	23876	70807	70807	0000
0100		48584	23876	70807	70807	61875	0100
1000		?????	?????	?????	?????	70807	1000
1100		70807	70807	70807	?????	70807	1100
1200		?????	?????	?????	?????	?????	1200
1300		70807	70807	?????	?????	70807	1300

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	61875	?????	?????	?????	87912		2200
2300	23876	?????	?????	?????	91700		2300
0000		70807	?????	?????	91700	11536	0000
0100		48584	?????	?????	11536	38714	0100
1000		?????	?????	?????	?????	?????	1000
1100		?????	?????	?????	?????	?????	1100
1200		?????	?????	?????	87912	?????	1200
1300		?????	?????	?????	?????	?????	1300

::: E10

<<<<<<<<<<>>>>>>>>

::: E22

Starting on December 2nd at 09:23 a Huge carrier came up with a loud

50hz mains hum (S+10).

Indian music was then broadcast at various signal levels.

Carrier dropped and came back quite often then stabilized.

Carrier and music stopped at 09:30.

Carrier noted briefly at 09:35.

11:40 noted a +20db carrier with buzz on 15040 dropped off by 11:44

More large carriers and tones from 11:47. Someone is busy on 15040!

11:47 Music with a western beat but still sounding Indian! S+20bd.

Sunday 4th December on 15040 10:07 thanks to a tip from a friend I found E22 calling Foxtrot Yankee Six FY6 in AM very Loud S9. There was a carrier up on 17387 at 10:08 but the tx had ended.

Later I made the following logs for E22:

15040 11:00 calling Lima Whisky four

17387 11:00 calling LW4

15040 11:06 calling LW4 with slight echo! Carrier drop at 11:07

17387 11:06 calling LW4 carrier and buzz dropped 11:08

15040 12:00 calling Sierra Yankee two.

17387 12:00 calling SY2 (many clicks and thumps on mic prior to tx)

15040 12:06 calling SY2 tx ends 07 carrier drops 07 and 20s

17387 12:06 calling SY2 tx ends 07 carrier/buzz drops.

Wednesday 07th December produced the following:

Large carriers (+10db) up at 07:39 on 15040 and 17387 AM

08:05 carrier back on 17387 only.

08:21 tones +20db now.

15040 becomes active now, background noise and mic noise.

08:29 tones up on both now.

15040 08:30 E22 calling FP3 tone up 07:29 carrier drops 08:37 25s

17387 08:30 E22 calling FP3 tone up 07:29 distorted audio, carrier drops

08:39 open mic until then. Much mic noise and background sound.

15040 08:35 E22 FP3

17387 08:35 E22 FP3

Nothing was heard from E22 until 14/12/05 Wednesday.

Suddenly at 07:17 on 17387 a carrier came up then to my surprise I heard a English speaking man start talking about Sri Lanka and cricket! He then handed over to his colleague who started speaking in a foreign language that sounded very like the one of my sound clips of E22 recorded 22/07/2005 from 13:59.

Strong (S9) carriers came up on 15040 and 17837 with the usual tone, then 15040 signal dropped off at 09:58.

17837 still active 09:59 and 45s tone came up.

10:01 and 20 tone stops and the sound of mic opening but no voice!

Tone started again at 10:01 and 50 s then everything dropped at

10:02 and 15s.

Then on 15040 at 11:00 E22 called QR7 much hum S9 - +10 and on 17387
11:05 QR7 again.
15040 12:00 calling YB8 S9 some fades,
17387 12:05 calling YB8 S7 deterioration on this FQ

Spurred on by this I started making more enquiries and with the help of some monitors in India I eventually contacted All India Radio who admitted these were tests sent by them! So E22 has been cracked!!!!

Cheers for now and please have a very happy Christmas and a great new year.
Mike.

::: E25

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::: V07

[illegible]

::: V13

<<<<<<<<<>>>>>>>>

::: V26

- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -

* MORSE STATIONS *

$$\vdots \vdots \vdots \quad \text{MX}$$

Most of the cluster beacons were heard on the usual frequencies. Beacon "C" however disappeared from 10872 and popped up on 10972 kHz on 7 and 10 Dec. Thanks for the tip, Fritz.

Channel markers:

L - 3202.7 kHz

P - 2331, 4051, 4899 kHz

R - 5465.8 kHz

The location of the "S" beacon has often been discussed. Arkhangelsk was mostly mentioned as possible location. Murmansk is another one. Neither one is correct, though. The location is Severomorsk, near Murmansk. Severomorsk is the big military port and airfield complex, Murmansk is 99% civilian. Arkhangelsk is largely abandoned except for units supporting the building and trials of vessels.

The "A" beacon is located in the Baku area, probably in or near Astrakan.

A - probably Astrakhan

C - Moscow

D - Sevastopol

F - Vladivostok

K - Petropavlovsk-Kamchatskiy

M - Magadan

P - Kaliningrad

S - Severomorsk

"What is the purpose of these beacons?" is a frequently asked question. Well, they were originally used by Naval Aviation units for direction finding/homing before the days of GPS/GLOSNA; back when the Russians had terrible Inertial Navigation gear. Basically, they helped the airplanes find their way home when operating over water. Most Russian aircraft these days are capable of pretty good open ocean navigation, so they aren't as relevant any longer. Nowadays, they probably still have that backup role, but are mostly used as propagation beacons.

[illegible]

::: M13

1-12, 2100 UTC, 7824 kHz: 253 258/21

2-12, 2100 UTC, 4121 kHz: 284 255/22

3301 kHz: 1600 UTC, 09-12: 4K7U rptd 3 mins, later messages //4959 kHz
4959 kHz: 1600 UTC, 09-12: 4K7U rptd 3 mins, later messages //3301 kHz
5204 kHz: 1530 UTC, 15-12: 447151349725518

::: M89

"V CP17 CP17 CP17 de L9CC L9CC" on 7000, 7006.5, 7031.7, 7059.6, 7064, 7066, 7068.7, 7078, 7083 kHz.
 "V B7TZ B7TZ B7TZ de 8PNX 8PNX" on 4928 kHz.
 "V T3AP T3AP T3AP de QF3K QF3K" on 5727 kHz.

M89 variant "VVV Q2M Q2M Q2M de NYZ NYZ". The location is still not confirmed. China or S.E. Asia is the most likely location.
Frequencies: 4860 and 6840 kHz.

* VARIOUS MODES *

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::: X06 (Mazielka) / M42

```
6802 kHz: Russian intel, Russia. 1643 UTC, 29 Dec.
           Mode: BAUDOT 200.33Bd/500Hz. Auto broadcasting multi figure
           group message to recipient "99"
6832 kHz: Russian intel, Russia. 1625 UTC, 4 Dec.
           Mode: BAUDOT 200.33Bd/500Hz. Auto broadcasting multi figure
           group message to recipient "98"
7810 kHz: Russian diplo. 1316 UTC, 10 Dec. Mode: BAUDOT 50Bd/500Hz.
           Sending 5FGs to LKF after 11100 00031 preamble.
10860 kHz: Mazielka calls. 1327 UTC, 23 Dec. Four tones, two of them
           very long.
10862 kHz: Mazielka calls. 1335 UTC, 13 Dec.
10172 kHz: Russian intel, Russia. 1240 UTC, 3 Dec.
           Mode: BAUDOT 200.33Bd/500Hz. Auto broadcasting multi figure
           group message to recipient "242"
12157 kHz: Mazielka calls. 1020 UTC, 7 Dec.
13879 kHz: Dep. of State Comms, Moscow. 0836 UTC, 28 Dec.
           Mode: MFSK-32/CROWD36 40Bd. Offline 5FG crypto to unid
           embassy on link #00028
```

14827 kHz: Dep. of State Comms, Moscow. 0730 UTC, 30 Dec.
 Mode: MFSK-32/CROWD36 40Bd. Offline crypto to unid embassy
 on link #00041

15872 kHz: Dep. of State Comms, Moscow. 0720 UTC, 27 Dec.
 Mode: MFSK-32/CROWD36 40Bd. Offline crypto to "JUA" on
 link #50035

16025 kHz: Mazielka calls. 1335 UTC, 27 Dec. 6 tone selcall, tone
 sequence 720 750 782 816 853 896 hertz

16295 kHz: Dep. of State Comms, Moscow. 1135 UTC, 30 Dec. Mode: 24.9Bd
 FSK alerting system, no follow-on TX noted

17430 kHz: Mazielka calls. 1036 UTC, 7 Dec.

18274 kHz: Dep. of State Comms, Moscow. 1034 and 1430 UTC, 29 Dec.
 Mode: MFSK-32/CROWD36 40Bd/10Bd. 5LG offline crypto to unid
 embassy on link #00096

18346 kHz: Mazielka calls. 1000 UTC, 1 Dec.

19926 kHz: Dep. of State Comms, Moscow. 1130 UTC, 30 Dec. Mode: 24.9Bd
 FSK alerting system, no follow-on TX noted

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★ UNID STATIONS ★

We received a number of logs of unid stations from Attu, Igor, Glenn
 and Fritz. If you know who these guys are, please mail me.

::: UNID 1

Igor sent us two logs of unid stations.

3095 kHz, 1630 UTC, 4 Dec. Fast morse.

63x59 71ttt xxxxx xxxxx58t8t
 4tx59 71ttt xxxxx xxxxx94t8t
 56x59 xxxtt xxxxx xxxxx15t8t
 63x58 7t6tt xxxxx xxxxx79t8t
 5tx58 7t2tt xxxxx xxxxx6118t
 58x56 81tt1 xxxxx x15t932872
 83x55 81t7t tttxx x85t89--8t
 9ax58 8t2t2 xxxxx x6t8t3tt8t
 63x6t xxxtt xxxxx xxxxx68874
 97x56 81t7t tttxx x851tt5t8t
 71x57 5t2tt xxxxx xxxxx16t8t
 5tx57 7t2tt xxxxx xxxxx8tt8t
 67x58 6t2tt xxxxx xxxxx37t8t
 65x56 8t2tt xxxxx xxxxx2718t
 72159 xxxt2 xxxxx xxxxx6528t
 34354 7t4t2 xxxxx xxxxx28474
 86x67 7t81t xxxxx x46t15tt8t

```
38x56 7t2tt xxxxx xxxxx39879
54x55 xxx1t xxxxx x85t78288t
47x54 xxxt2 xxxxx x851t2388t
46x54 7t4t2 xxxxx x85157188t
5tx53 8t2t2 xxxxx x85t6
vvv vvv vvv (rptd)
```

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UNID 2

6299 kHz, 1243 UTC, 30 Nov. 3

```
v baku
t3/28 11t5 13tt
t4/29 11t5 173t
t5/28 11t5 13tt
t7/5t
12/43 2tt1t
3t/512 31/t5tt
3t/445 31/t13t
3t/483 31/tt3t
3t/1t1 31/143t
3t/484 31/tt3t
3t/549 31/t13t
3t/542 31/t13t
3t/673 31/t13t
3t/433 31/tt3t
3t/45t 31/t1tt
3t/412 31/tt3t
42/214t96 nou0e 5r = kmpenew ar nil
```

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::: UNID 3

Another unid comes from Attu in Alaska.

3770 kHz, 1827 UTC, 4 Dec. Mode: FSK-CW

1827 UTC: CQ CQ CQ = 334 68 85 22 415 K

1832 UTC: CQ CQ CQ = 622 76 39 38 498 K

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UNID 4

Two unids from Fritz:

4993 kHz, daily at 1600 UTC. "J3VT" repeated for 2 mins, then EOT.

Note: This station is active in the Winter for years. It used call UXSF in 2003 and is J3VT since 2004. No message was heard so far. The call is hand sent. Signal strength varies, sometimes up to S9 +30 in Zuerich.

[illegible]

UNID 5

6998.5 kHz, 1545 UTC, 22 Dec.

...=kapit=sudna=zaharenko=aw=zaharenko=aw=grgr=rfrf=nu=nu=goda=
komada=uuu=grgr=...etc (Addressee confirms)

Note: This is the QRG of pirat HWK7 in Loreto (I). On July 13th a similar message has been sent: "...=osug=osug=koncolx=koncolx=za=za=revimon=revimon=ZSL ? k

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UNID 6

Frequency: 8362 kHz

"I hear this CW with weird chars again that I had logged on the 7th and the 14th." says Glenn. "The characters were long enough to be numbers but they did not make any sense. AnyWUN have a clue? As the last times, it will go dead again at 07:00 UTC."

Soundclip at http://www.vambo.org/8362khz_12-14-2005_0655utc.wav

On the 20th we received a message from Trond who writes "Hello Glenn and WUNners. Interesting sound clip. Start of the recording - / --.. / ...- / ..-.. / ..- / --.- / .. / --. / -. / .- / ..- / --.. / .. / --.- /- / / -. / -- / short pause .. / .. / / -- / - / ---.. end of recording.

So we have; T / unid / V / unid / L / unid / I / X / CT / unid / unid / I / CT / unid / VE / N / M / short pause, then; R / R / 5 / M / T / 8

Even though there are some punctuations in the text fragment, it is not certain that their meaning here is the same as the original meaning.
CT = Commence Traffic and VE = Understood.

- RR5 and MT8 could be receiver and sender ??
- Is the first "T" a single letter, or part of a word ??

"RDL RDL RDL 86147 15227 86147 15227 86147 15227 k"

Trond heard this station on various dates and times. Bearings from around the globe are very welcome to identify the unidentified transmitter site on 27.3 kHz. The early morning transmission (0629 UTC) is most likely from one of the far-east sites.

583 Russian navy Kaliningrad: RMP. Quite active on 15 Dec.

Mode: CW 17 wpm. "= sml = 11111 71987 97295 473t3 ()9933 4t681
499t8 84616 54173 775 noise noise 29755 t2647 72458 1894t 42846
fading out, broadcast ended with "15t99 ="

Broadcast to REO, with wx forecast; "reo reo reo de rmp rmp qtc
55t 47 15 2315 55t = sml = baltijskoe more opoweqenie nr 323
`tormowoe preduprevdenie sewerozapadnom wetre 16 tire 20 porywy
23 ms po rajonu 4 zamen`ets` na `tormowoe sewerozapadnom 15
tire (??)8 ms `tormowoe pa" then fading and drowning in commercial
bcast grm.

2558 CIS mil: IV6T

3190 CIS mil: Communication checks with OA5N, M3QI, KOAW, QKS8.
Simplex net.

3192 Russian navy: RMP: HQ Baltic Fleet Kaliningrad. "REO de RPM QTC
124 63 1 2031 124 = Wsem sudam dejstwu,qie prip Kaliningrad na
02000000 dekabrx ... 213 215 = AR.

3207 Russian mil: APDS comms check with P40A, ZL3M, 8Y2M, DAX6.

3229 Russian mil: W904, AHQ3, I3MT, QSLR, 3SKL, JW6Q, M7AR. r

3348 Ukrainian mil: 1PPT calls 4MWM with ZGJ ZUZ ZZX QYT5 K. Then QRJ?
QYT5; QRJ3 QYT5. QTY5 mode is unknown.

3354 CIS mil: 6JOS:

3582 Russian mil: 4LG msg to unid

3775 Ukrainian mil: GNLH comms check with MH6V, 8GT2, H60W, G76L,
XXN3, KNXX.

3826 Ukrainian mil: D6Z2, EYIL, MHVC, BESH, OKQB, MLXU, QCEC, FHY6,
NBFD, 80DS

3863 Ukrainian mil: Strategic flash message: "XXX XXX ESUP
ESUP 82465 hANTAV 6535". Comms check with 2X1P, P07T, NDCX,
02YN, KWNP, M5HA, KA4I, EE3N, YLWP, YE8Q, 6ENB, C9F7, MYSD,
BTCV, M9ZL, 8AYI, E7BD, PROX, QAI3, BVTP, GPAS, CKT6, 3QZR, CUPR,
KNI9, 8RVU, ELK7, SG7R, GZX1. Flash messages: "XXX XXX ESUP ESUP
47292 ABAVUR 9776" and "XXX XXX ESUP ESUP 89141 hANOWNYJ 6054"
(h = - - - -)

7018 Russian Air Force: REA.

"DE REA4 = 1614T 27627 6556T 3T4T3 1TT78 885TT 23672 86T

8008 CIS mil. Morse opchat: OK ZQX ZYF then QSYs to 8138 kHz.

8506 Russian mil: RDL. Tx site Tashkent. //18.1//17460 kHz

8138 CIS mil. See 8606 kHz.

14092 Russian mil: RGT77

17460 Russian mil: RDL. Tx site Tashkent. //18.//8508 kHz

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::: OTHER MILITARY STATIONS

2120 Polish mil. Short messages, all beginning with "Uwaga! Tu Warmia"
2750 VC6: Estonian Military 1737 clg RX1 who responds, and OV5.
Mil-style voice comms in Russian in background
5206.0 Unid NATO? net. Radio check between CONTROL and KA, KC, KE, KG,
KK, MXU. CONTROL with Dutch accent, KA German, KE, KK, MXU
British. Mode: USB.
6992.5 UK Sea Cadet net with MFJ03: Sea Cadet Corps Assistant SCHQ Staff
Officer, MFM01, MFL33: Dulwich, MFP34: Isle of Man, MFJ04, MFM62:
Belfast, Eagle Milewater Basin, MFQ15: Jersey. Callups and traffic.
Calls from SCC Comms Training Manual.

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